

ABSTRACT

1 Measurements are made continuously with a seismic while drilling (SWD) system and
2 the measured data are stored in a working memory of a downhole processor along with
3 quality control (QC) measurements. The QC data are analyzed and based on the analysis,
4 portions of the data in working memory are recorded in permanent memory for retrieval.
5 Alternatively, QC measurements are made substantially continuously predictions are
6 made when data quality for SWD measurements are likely to be good. Recording of
7 SWD data are then started based on the prediction.